

01/538, 885

METHOD AND APPARATUS FOR DECOMPRESSION
OF MPEG COMPRESSED DATA IN A COMPUTER SYSTEM

Charles C. Stearns

Stephanie W. Ti

5

ABSTRACT OF THE DISCLOSURE

MPEG compressed data is decompressed in a computer system by sharing computational decompression tasks between the computer system host microprocessor, the graphics accelerator, and a dedicated MPEG processor in order to make best use of resources in the computer system. Thus the dedicated MPEG processor is of minimum capability and hence advantageously minimum cost. The host microprocessor is used to decompress the MPEG upper data layers. The more powerful the host microprocessor, the more upper data layers it decompresses. The remainder of the decompression (lower data layers) is performed by the MPEG dedicated processor and/or the graphics accelerator.